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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/528,493

03/18/2005

Mark Thomas Johnson

NL 020888

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01/24/2008

PHILIPS INTELLECTUAL PROPERTY & STANDARDS

P.O. BOX 3001

BRIARCLIFF MANOR, NY 10510

EXAMINER

CHOWDHURY, AFROZA Y

ART UNIT

PAPER NUMBER

2629

MAIL DATE

DELIVERY MODE

01/24/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/528,493

Applicant(s)

JOHNSON ET AL.

Examiner

Afroza Y. Chowdhury

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 3/18/2005, 11/16/2005.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_.

## **DETAILED ACTION**

### ***Drawings***

1. Figure 1-2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Objections***

2. Claim 1 objected to because of the following informalities: The first claim is not numbered. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being unpatentable by **Shannon** (WO 01/20591).

As to claim 1, Shannon discloses a matrix display device comprising an array of addressable pixels each having a display element and a control circuit for controlling the operation of the display element, the control circuit comprising

a charge storage capacitor (fig. 3(36)) and a photosensitive device (fig. 3(38)) coupled to the storage capacitor for regulating charge stored on the storage capacitor in accordance with light falling on the photosensitive device (page 12, line 29 – page 13, line 5),

a driving element (fig. 3(22)) for driving the display element (fig. 3(20)) , a control terminal of the driving element being connected to said storage capacitor (p12, line 19-28),

an addressing element (fig. 3(26)) for applying a data signal to the driving element (fig. 3(22)), and

means for independent voltage control (fig. 3(30, VD)) of a control terminal of the photosensitive device (page 19, line 7-9).

As to claim 2, Shannon teaches a matrix display device wherein the independent voltage control means (fig. 3(30, VD)) comprise a selection line being connected to the gate terminal of the photosensitive device (page 19, line 7-9).

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As to claim 3, Shannon discloses a matrix display device where the photosensitive device comprises a thin film transistor (fig. 3(22)) of the same conductivity type as a conductivity type of the driving element (fig. 3(22)) and the addressing element (fig. 3(26)).

As to claim 4, Shannon teaches a matrix display device wherein the display element comprises an Organic Light Emitting Diode (fig. 2(20), page 9, lines 7-11).

As to claim 5, Shannon teaches a matrix display device where the selection line is individually addressable for each selection line of the display (fig. 1).

As to claim 6, Shannon teaches a matrix display device wherein the selection line is formed by a single common terminal (fig. 1(12), page 10, lines 1-8).

As to claim 7, Shannon discloses a display apparatus, comprising:  
a matrix display device (fig. 1, page 8, lines 21-28),  
a data driver circuit (fig. 1(18)) for applying said data signal to a data terminal of the addressing switch element (page 9, lines 1-6); and  
a selection driver circuit (fig. 1(16)) for applying a selection signal to said selection line (page 9, lines 1-6).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Shannon** (WO 01/20591) in view of **Kuribayashi et al.** (US Patent 6373455).

As to claim 8, Shannon discloses a matrix display device comprising an array of addressable pixels each having a display element and a control circuit for controlling the operation of the display element (fig. 1).

Shannon does not specifically teach a display apparatus wherein said independent voltage control means comprise duty cycle control means.

Kuribayashi et al. teaches an EL display device that operates at the duty cycle close to 100 percent (col. 6, lines 29-42).

Therefore, it is obvious to one skill in the art at the time of the invention was made to incorporate the idea of duty cycle control means of Kuribayashi et al. into Shannon's display device to make a display device with independent voltage control means comprising duty cycle control means for motion blurr compensation.

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**Conclusion**

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Afroza Y. Chowdhury whose telephone number is 571-270-1543. The examiner can normally be reached on 7:30-5:00 EST, 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amare Mengistu can be reached on 571-272-7674. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AC  
1/20/2008

  
AMARE MENGISTU  
SUPERVISORY PATENT EXAMINER